



## State of Utah

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

## Department of Environmental Quality

William J. Sinclair  
*Acting Executive Director*

DIVISION OF AIR QUALITY  
Cheryl Heying  
Director

DAQE-IN0118330001-09

January 27, 2009

Mike Dunn  
Dunn Construction, L.C.  
96 South 1200 West  
Lindon, UT 84042

Dear Mr. Dunn:

Re: Intent to Approve: Portable Aggregate Processing Equipment  
Portable Src County; CDS SM; MACT (Part 63), NSPS (Part 60)  
Project Number: N011833-0001

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Mr. Alan Humpherys, who may be reached at (801) 536-4142.

Sincerely,

John T. Blanchard, Manager  
Minor New Source Review Section

JTB:AH:sa

cc: Salt Lake Valley Health Department

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

**INTENT TO APPROVE: Portable Aggregate Processing  
Equipment**

**Prepared By: Mr. Alan Humpherys, Engineer**

**Phone: (801) 536-4142**

**Email: [ahumpherys@utah.gov](mailto:ahumpherys@utah.gov)**

**INTENT TO APPROVE NUMBER**

**DAQE-IN0118330001-09**

**Date: January 27, 2009**

**Portable Aggregate Equipment**

**Source Contact:**

**Mr. Gordon McKervery**

**Phone: (801) 221-9001**

**John T. Blanchard, Manager  
Minor New Source Review Section  
Utah Division of Air Quality**

## **ABSTRACT**

Dunn Construction, L.C. has requested a modification to their AO to add an aggregate screen. This AO is issued for the purpose of operating portable equipment that belongs to the non-metallic mineral processing industry, including aggregate processing plants. Sets of equipment chosen from the equipment approved in this AO shall be temporarily operated for a period of not more than 180 operating days in any calendar year at any site. A relocation shall not exceed 365 consecutive days at any location in the State of Utah. Prior to commencement of operation at a site, the source shall submit a Notice of Temporary Relocation to the Executive Secretary. If the plant operates at a site in compliance with the AO, the Notice of Temporary Relocation, and the Temporary Relocation Approval Letter, dispersion modeling results have determined that there will be no adverse impacts on air quality at the nearest residence or commercial establishment. Compliance with the opacity limits and various operating practices listed in the conditions of the AO shall be considered as application of BACT. The emission control measures listed in the conditions of this AO shall apply to all of the sites at which the equipment approved by this AO operates. The source may be required to adopt additional measures for controlling emissions to address site-specific concerns. This AO shall indicate whether the equipment is subject to the NSPS, 40 CFR Part 60, Subpart OOO and IIII or MACT Regulations, 40 CFR Part 63 Subpart ZZZZ. The Temporary Relocation Approval Letter, which the source is required to possess prior to operation, shall list the allowable emissions and/or production limits for the relocation. This AO limits the source to emissions, which are below the major source threshold, making it a "Synthetic Minor" source. Other applicability factors may still apply. The terms and conditions of this AO are enforceable by both the State of Utah and the Federal Government.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Salt Lake Tribune and Deseret News on January 31, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

### **Name of Permittee:**

Dunn Construction, L.C.  
96 South 1200 West  
Lindon, UT 84042

### **Permitted Location:**

Portable Aggregate Equipment  
Not permanently based at a site.  
Portable Src, UT

### **Section I: GENERAL PROVISIONS**

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]
- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]
- I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

### **Section II: SPECIAL PROVISIONS**

#### **II.A The approved installations shall consist of the following equipment:**

##### **II.A.1 Portable Aggregate Equipment**

##### **II.A.2 Impactor Crusher**

Capacity: 200 TPH

AO Number: DAQE-876-01

Serial Number: P 0752-10023

Manufacturer: Bear Claw

NSPS Applicable: Subpart OOO

##### **II.A.3 Double Deck HR Screen**

Capacity: 200 TPH

AO Number: DAQE-876-01

NSPS Applicable: Subpart OOO

Serial Number: 5-15-NC 70642701

- |        |   |   |
|--------|---|---|
| II.A.4 | <p><b>Double Deck Screen</b><br/> Size: 16' x 6'<br/> AO Number: NEW<br/> NSPS Applicable: Subpart OOO</p>                        |   |
| II.A.5 | <p><b>30" x 80" Radial Conveyor/Belt Scale</b><br/> Capacity: 200 TPH<br/> AO Number: DAQE-876-01<br/> Serial Number: P 01157</p> | <p>Manufacturer Date: 1990<br/> NSPS Applicable: Subpart OOO</p>                                  |
| II.A.6 | <p><b>800 kW Diesel Generator</b><br/> AO Number: DAQE-876-01<br/> Manufacturer Date: 1989<br/> MACT Applicable: Subpart ZZZZ</p> | <p>Manufacturer: Caterpillar<br/> Serial Number: AZR 05388<br/> NSPS Applicable: Subpart IIII</p> |
| II.A.7 | <p><b>97 hp Diesel Engine</b><br/> AO Number: NEW<br/> Manufacturer: Duetz<br/> MACT Applicable: Subpart ZZZZ</p>                 | <p>Serial Number: BF44914<br/> NSPS Applicable: Subpart IIII</p>                                  |
| II.A.8 | <p><b>15 hp Magnet</b><br/> Capacity: 200 TPH<br/> AO Number: DAQE-876-01</p>   | <p>Serial Number: 930652</p>  |
| II.A.9 | <p><b>42" x 14" Feeder Hopper</b><br/> Capacity: 200 TPH<br/> AO Number: DAQE-876-01<br/> Manufacturer Date: 1994</p>             | <p>Manufacturer: Fabtec<br/> Serial Number: 42-14-H-32-96</p>                                     |

## II.B Requirements and Limitations

- II.B.1 **The Portable Equipment listed in this AO shall be subject to the following**
- II.B.1.a The owner/operator shall install, operate, and conduct its operations of the aggregate processing plants in accordance with the terms and conditions of this AO and the terms and conditions of the Temporary Relocation Approval Letter issued by the Executive Secretary for each relocation. This Approval Letter will be based on the DAQ analysis of the information submitted to the Executive Secretary in the Notice of Temporary Relocation Form. [R307-401]
- II.B.1.b Equipment listed in this AO can be replaced by other equipment of equal or lesser production capacity having the same function as the existing equipment with written notification to the Executive Secretary, and adherence to the DAQ "Replacement in Kind" provision. [R307-401-11]
- II.B.1.c The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), 40 CFR 60.670 to 60.676 for all crushers, screens, and conveyors associated with this AO. [40 CFR 60 Subpart OOO]

II.B.2 **Dunn Construction, L.C. shall be subject to the following relocation provisions**

II.B.2.a Prior to operating equipment at any site, the owner/operator shall obtain a Temporary Relocation Approval Letter. Temporary relocations shall not exceed 180 operating days in any calendar year not to exceed 365 consecutive days, starting from the initial relocation date, at any site. Relocations expected to exceed 180 operating days shall be preceded with a NOI for a permanent source and a valid AO shall be obtained prior to the end of the 180 days.

The DAQ needs at least ten working days for processing and issuing a Temporary Relocation Approval Letter; however, Notices of Temporary Relocation may be submitted as soon as the details on equipment to be used and when the equipment will be at each specific site are available. Notices of Temporary Relocation shall include the following information (Form 15a is available from the DAQ):

- A. The location of the proposed site (Please include directions on how to go to the site).
- B. The expected startup and completion dates for operating at the proposed site.
- C. A site diagram showing the general equipment location on site (to scale), and the distance to the nearest houses, barns or commercial operations (to scale if the plant boundary is located within one mile of these buildings).
- D. A list of the equipment to be operated at the proposed site.
- E. Additional emission control measures for various emission points that the source proposes to adopt at each site, which will require application of emission controls beyond the control measures required by this AO.
- F. Include a reference to this AO. [R307-401-17]

II.B.2.b The owner/operator shall be allowed to relocate any of the equipment listed in this AO to any location approved by the Temporary Relocation Approval Letter. The Temporary Relocation Approval Letter, which the source is required to possess prior to operation at a site, shall list the allowable emissions for the relocation based on the aggregate production capacity, the projected hours of operation during the period of relocation, and the degree of enforceable emissions control that the source proposes to adopt during the period of relocation. [R307-401]

II.B.2.c Before granting a Temporary Relocation Approval Letter, the proposed site will be evaluated by the Executive Secretary to verify that the plant will not cause a new violation of the NAAQS. This evaluation will be based on the computer dispersion modeling conducted by the DAQ and information that shall be submitted in the Notice of Temporary Relocation. The Notice of Temporary Relocation shall be submitted at least ten working days prior to the source operation and shall contain a Fugitive Dust Control Plan (FDCP). If violations of the NAAQS are suspected at the proposed site, the owner/operator shall be required to:

- A. Apply air pollution controls at the proposed site which are more stringent than those outlined in the conditions of this AO and/or

B. Perform continuous ambient monitoring for PM<sub>10</sub> for at least the first 30 days of operation to demonstrate that the applicable NAAQS are not violated at the site under normal operating conditions. Monitoring shall be initiated only after consultation with DAQ and carried out in accordance with the Utah DAQ guidelines. [R307-401]

II.B.2.d Temporary sources that plan to relocate to sites listed in the Utah PM<sub>10</sub> State Implementation Plan (PM<sub>10</sub> SIP) shall be required to meet standards and adopt control strategies listed in the PM<sub>10</sub> SIP for the site, if the PM<sub>10</sub> SIP requirements for the site are more stringent than the requirements specified in the conditions of this AO. For sources that submit a Notice of Temporary Relocation to relocate to a site that is listed in the PM<sub>10</sub> SIP, the requirements under which the source would be required to operate shall be specified in the Temporary Relocation Approval Letter. [R307-401]

II.B.2.e Prior to granting the Temporary Relocation Approval Letter for operation at any site, the DAQ will verify that the total emissions from the site (or other sites that are considered to be adjacent or contiguous to the site) for all equipment owned or operated by a company (including equipment permitted under a permanent AO) over any 12-month period does not exceed major source thresholds, at each site, for the Operating Permit program. These thresholds are 100 tons per year of non-HAPs, 25 tons per year of any combination of HAPs and ten tons per year of any single HAP. [R307-401]

II.B.3 **The source shall be subject to the following limitations and requirements**

II.B.3.a The owner/operator shall maintain records of all equipment listed in this AO. The records shall contain actual hours of operation of the equipment at each site and the actual emissions that resulted from the operation at each site. These emissions shall be summarized for each piece of equipment at the completion of operation at each site, or every six months, whichever comes first (or as directed by the Executive Secretary) and made available to the Executive Secretary or the Executive Secretary's representative upon request. [R307-401]

II.B.3.b In the case of any discrepancy between the Conditions of this AO and the Temporary Relocation Approval Letter, the source shall be required to comply with the site-specific requirements in the Temporary Relocation Approval Letter. [R307-401]

II.B.3.c The daily production limit specified in the Temporary Relocation Approval Letter, tons of product produced per 24-hour period (midnight to midnight), shall not be exceeded without prior approval. [R307-401]

II.B.3.c.1 Records of daily production shall be kept for all periods when the plant is in operation. The daily production shall be determined by belt scale records, scale house records, vendor receipts or by any other method as acceptable to the Executive Secretary or the Executive Secretary's representative. Records of daily production shall be made available to the Executive Secretary or the Executive Secretary's representative upon request. [R307-401]

- II.B.3.d The actual hours of operation of the plant shall not exceed 16 hours during any 24-hour period (from midnight to midnight). The actual time of operation shall be between 6:00 AM and 10:00 PM. The hours of operation may be altered upon approval of the Executive Secretary. Any request for a change in these hours shall include modeling showing that all NAAQS are met. [R307-401]
- II.B.3.d.1 Unless otherwise specified in this AO, records of hours of operation shall be kept for all periods when the plant is in operation. Hours of operation shall be determined by a supervisor responsible for the monitoring and maintenance of an hours-of-operation log. [R307-401]
- II.B.3.e The total hours of actual operation/production shall not exceed 2,880 hours during the entire period of relocation to any site. [R307-401]
- II.B.3.f Unless otherwise specified in this AO, visible emissions from the following emission points shall not exceed the following values:
  - A. All crushers - 15% opacity
  - B. All screens - 10% opacity
  - C. All conveyor transfer points - 10% opacity
  - D. All conveyor drop points - 20% opacity
  - E. All diesel engines - 20% opacity
  - F. All other points - 20% opacity. [R307-401]
- II.B.3.f.1 Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201] & [R307-305]
- II.B.3.g Initial visible observations of opacity shall be conducted for all crushers, screens, and conveyor transfer points. Observations shall meet the opacity limitations listed in this AO. [40 CFR 60 Subpart OOO]
- II.B.3.g.1 Initial observations of opacity shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. Initial visible emission observations shall consist of 30 observations of six minutes each in accordance with 40 CFR 60.11(b). The duration of observations may be reduced to comply with 40 CFR 60.675(c)(3) or 40 CFR 60.675(c)(4). A certified observer must be used for these observations. [40 CFR 60 Subpart OOO]
- II.B.4 **All Haul Roads & Fugitive Dust Sources shall be subject to the following**
- II.B.4.a The owner/operator shall abide by a FDCP acceptable to the Executive Secretary for control of all dust sources associated with the equipment listed in this AO. The owner/operator shall submit a FDCP to the Executive Secretary, attention: Compliance Section, with the Notice of Temporary Relocation for each temporary site. [R307-309]



- II.B.4.b The owner/operator shall not allow visible emissions from haul roads and fugitive dust sources to exceed 20 percent opacity on site. [R307-205] &. [R307-309]
- II.B.4.b.1 Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-205] &. [R307-309]
- II.B.4.c The owner/operator shall install water sprays or chemical dust suppression sprays on all crushers, all screens, and all unenclosed conveyor transfer points at each temporary site to control fugitive emissions. Sprays shall operate as needed to maintain the opacity limits listed in this AO. [R307-401]
- II.B.4.d The speed of mobile equipment (trucks, front end loaders, etc.) shall not exceed 15 miles per hour. The haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road. [R307-401]
- II.B.4.e The area occupied by the storage piles generated by this operation shall not exceed 1.5 acres. [R307-401]
- II.B.4.f The owner/operator shall use water sprays or chemical dust suppression sprays on all storage piles on site to control fugitive emissions. Sprays shall operate as needed to maintain the opacity limits listed in this AO. [R307-401]
- II.B.4.g The area disturbed by this operation, which has not been stabilized to prevent wind erosion, shall not exceed 5.0 acres. [R307-401]
- II.B.4.h Control of disturbed or stripped areas shall be required at all times for the duration of the project/operation. [R307-205] &. [R307-309]
- II.B.4.i The owner/operator shall conduct its operations in such a way to minimize fugitive dust and fugitive emissions by abiding by all applicable requirements of R307-205 (statewide) and R307-309 for (PM<sub>10</sub> non-attainment areas of Salt Lake, Utah, Davis Counties and Ogden City). [R307-205] &. [R307-309]
- II.B.5 **All Stationary Diesel Engines/Generators shall be subject to the following**
- II.B.5.a The owner/operator shall use #1, #2 or a combination of #1 and #2 diesel fuel in the diesel generators. [R307-401]
- II.B.5.b The sulfur content of any fuel oil or diesel burned in the generators shall not exceed 0.50 percent by weight. [R307-401]
- II.B.5.b.1 The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of fuel oil shall be either by the owner/operator's own testing or by test reports from the fuel oil or diesel fuel marketer. [R307-203]

- II.B.5.c The owner/operator shall abide by all applicable provisions of 40 CFR 63, MACT Standards Subpart A (General Provisions), 63.1 to 63.16 and Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), 40 CFR 63.6580 to 63.6675 for all stationary diesel engines listed in this AO. [40 CFR 63 Subpart ZZZZ]
- II.B.5.d The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), 40 CFR 60.4200 to 60.4219 for all stationary diesel engines listed in this AO. [40 CFR 60 Subpart IIII]

### **Section III: APPLICABLE FEDERAL REQUIREMENTS**

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

MACT (Part 63), A: General Provisions  
MACT (Part 63), ZZZZ: Recipro. Int. Comb Engine (RICE)  
NSPS (Part 60), A: General Provisions  
NSPS (Part 60), IIII: Stationary Comp/Ignit R.I.C.E  
NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plnts

### **PERMIT HISTORY**

The final AO will be based on the following documents:

Is Derived From	NOI dated December 17, 2008
Supersedes	DAQE-876-01 dated October 23, 2001

## ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO <sub>x</sub>	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM <sub>10</sub>	Particulate matter less than 10 microns in size
PM <sub>2.5</sub>	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO <sub>2</sub>	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds